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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE GILA AND SALT RIVER MERIDIAN (EAST BOUNDARY),

A PORTION OF THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES,

TOWNSHIP 2 SOUTH, RANGE 1 WEST,

OF THE GILA AND SALT RIVER MERIDIAN,

IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated October 30, 2015, approved October 30, 2015, which provided for the surveys included under Group No. 1149, and assignment instructions dated October 30, 2015.

Survey commenced November 16, 2015 Survey completed January 14, 2016

INDEX DIAGRAM

TOWNSHIP 2 SOUTH RANGE 1 WEST GILA & SALT RIVER MERIDIAN, ARIZONA

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T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Gila and Salt River Meridian (east boundary), a portion of the north boundary and a portion of the subdivisional lines, Township 2 South, Range 1 West, Gila and Salt River Meridian, Arizona.

Sections 1, 2, 3, 11 and 12, public domain lands are being offered for sale.

The history of surveys pertaining to this resurvey is as follows: In 1883, J.B. McLaughlin, Deputy Surveyor, surveyed the Gila and Salt River Meridian thru the township. Robert A. Farmer, U.S. Surveyor, under the direction of Indian Surveys, independently resurveyed the north 3 miles of the Gila and Salt River Meridian, identical with the west boundary of the Gila River Indian Reservation in 1912. Sidney E. Blout, U.S. Surveyor, surveyed the north boundary in 1913. W.H. Thorn and W.G. Shapcott, U.S. Surveyors, surveyed the subdivisional lines in 1913.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated October 30, 2015, for Group Number 1149, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation R8 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Maricopa County Department of Transportation control station 3DB3, established by Global Positioning System (GPS) static observations and adjusted by National Geodetic Survey in June 2012.

The NAD 83(2011)(EPOCH:2010.00), geographic position of the corner of sections 7, 12, 13 and 18, on the east boundary of the township is as follows:

Latitude: 33°15'40.608" N. Longitude: 112°18'22.088" W.

The NAD 83(2011)(EPOCH:2010.00), geographic position of the corner of sections 3, 4, 33 and 34, on the north boundary of the township is as follows:

Latitude: 33°17'24.769" N. Longitude: 112°21'28.377" W.

T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

The mean magnetic declination is 10 1/2° E.

Dependent Resurvey of a Portion of the Gila and Salt River Meridian, Arizona (east boundary),
Township 2 South, Range 1 West

Restoring the resurvey executed by Robert A. Farmer in 1912

Beginning at the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., monumented with an iron post, 1 in. diam., set atop bedrock, projecting 36 ins. above ground, in a supporting mound of stone, 4 ft. base, 3 ft. high. The brass cap has 2 notches on the N., and 4 notches on the S., with marks S12 S7 R1W T2S S13 R1E S18 1912 GRIR. Add the marks 2015 to the brass cap.

Cor. is located on a spur, extends NE and SW, within lower slopes of Sierra Estrella Mountains.

N. $0^{\circ}15^{\circ}$ E., bet. secs. 7 and 12, identical with the W. bdy. of the Gila River Indian Reservation.

Ascend 1000ft., over W. and SW facing slopes of Sierra Estrella Mountains.

The witness cor., to the 1/4 sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. WC 1/4 S12 S7 GRIR 1912. Add the marks 2015 to the brass cap.

Raise a mound of stone, 3 1/2 ft. base, 2 ft. high, 5 lks. E. of cor., on stable ground.

North, beginning new measurement.

0.10 True point for the 1/4 sec. cor. of secs. 7 and 12, at proportionate dist., falls on boulder in place, impracticable to monument.

Ascend 1100ft., over W. and SW facing slopes of Sierra Estrella Mountains.

The witness cor., to the cor. of secs. 1, 6, 7 and 12, monumented with an iron post, 1 in. dia., set atop bedrock, projecting 36 ins. above ground, in a supporting mound of stone, 4 ft. base, 3 ft. high. The brass cap has 1 notch on the N. and 5 notches on the S., with marks S1 S6 R1W T2S S12 R1E S7 1912. Add the marks 2015 to the brass cap.

Dependent Resurvey of a Portion of the Gila and Salt River Meridian, Arizona (east boundary), T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

	T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona
CHAINS	
	N. 0°10' E., beginning new measurement.
0.99	True point for the cor. of secs. 1, 6, 7 and 12, at proportionate dist., falls within boulders, impracticable to monument.
	Continuing measurement bet. secs. 1 and 6, identical with the W. bdy. of the Gila River Indian Reservation.
	On the upper SW facing slopes of Sierra Estrella Mountains.
40.56	True point for the 1/4 sec. cor. of secs. 1 and 6, at proportionate dist., falls on precipitous S. facing slope, impracticable to monument.
45.90	The witness cor. to the 1/4 sec. cor. of secs. 1 and 6, monumented with an iron post, 1 in. diam., wedged in a crevice, between boulders, projecting 30 ins. above ground, in a supporting mound of stone, 3 ft. base, 2 ft. high, with brass cap mkd. 1/4 S1 S6 GRIR 1912. Add the marks 2016 to the brass cap.
	Cor. is located on main ridge of Sierra Estrella Mountains, extends NW and SE.
	N. 0°05' E., beginning new measurement.
	Descending, 1200 ft. over N. and NE facing slope of Sierra Estrella Mountains.
34.39	The cor. of Tps., 1 and 2 S., Rs. 1 E. and 1 W., monumented with an iron post, 3 ins. diam., projecting 30 ins. above ground, loosely set, in a supporting mound of stone, 4 ft. base, 3 ft. high. The brass cap has 6 notches on each of the cardinal points, with marks S36 S31 R1W T1S T2S R1E S1 S6 191.
	Add the marks 2016 to the brass cap, straighten the iron post, add to supporting mound of stone, 6 ft. base, 3 ft. high.
	Cor. is located on lower N. and NE facing slopes of Sierra Estrella Mountains.
	Dependent Resurvey of a Portion of the North Boundary, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona
	Restoring the survey executed by Sidney E. Blout, in 1913
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Dependent Resurvey of a Portion of the North Boundary, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS	1. 2 S., R. I W., GIIA AND SAIL RIVER MERIDIAN, ARIZONA		
CHAINS			
	From the cor. of Tps., 1 and 2 S., Rs. 1 E. and 1 W., hereinbefore described.		
39.92	S. 89°59' W., between secs. 1 and 36, on the N. bdy. of the Tp.		
	Ascend 600 ft. over the N., E. and NE facing slopes of Sierra Estrella Mountains.		
	The 1/4 sec. cor. of secs. 1 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 15 ins. above ground, encircled with a collar of stone, with a mound of stone, 2 1 1/2 ft. base, 1 1/2 ft. high 6 lks. to the N., with brass cap mkd. S36 1/4 S1 1913. Add the marks 2015 to the brass cap.		
	Cor. is located on steep N. facing slope.		
	S. 89°59' W., beginning new measurement.		
40.06	Ascend 700 ft. over the N., E. and NE facing slopes transitioning to S. and SE facing slopes of Sierra Estrella Mountains.		
	The cor. of secs. 1, 2, 35 and 36, monumented with an iron post, 3 ins. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 ft. base, 1 1/2 ft. high, with brass cap mkd. TIS R1W S35 S36 S2 S1 T2S 1913. Add the marks 2015 to the brass cap.		
	Cor. is located on a steep, rocky SW facing slope.		
	N. 89°59' W., bet. secs. 2 and 35.		
39.95	Descend 800 ft., over S. and SW facing slopes, transitioning to N. and NW facing slopes.		
	The 1/4 sec. cor. of secs. 2 and 35, monumented with an iron post, 1 in. diam., firmly set, projecting 15 ins. above ground, encircled with a collar of stone, with a mound of stone, 3 ft. base, 2 ft. high to the N., with brass cap mkd. S35 1/4 S2 1913. Add the marks 2015 to the brass cap.		
	Cor. is located on steep, rocky N. facing slope.		
	S. 89°57' W., beginning new measurement.		
39.98	Over N. facing slopes, transitioning to SW facing slopes.		
	True point for the cor. of secs. 2, 3, 34 and 35, at proportionate dist., falls on shear cliffs, impracticable to monument.		

Dependent Resurvey of a Portion of the North Boundary, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

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	Continuing measurement, bet. secs. 3 and 34.
41.18	The witness cor., to the cor. of secs. 2, 3, 34 and 35, monumented with an iron post, 3 ins. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 3 ft. base, 1 ft. high, with a mound of stone, 3 1/2 ft. base, 2 ft. high to the N., with brass cap mkd. T1S R1W S34 S35 WC S3 S2 T2S 1913. Add the marks 2015 to the brass cap.
	Cor. is located on the W. side of a spur, within the SW facing slopes of Sierra Estrella Mountains.
	S. 89°57' W., bet. secs. 3 and 34.
	Descend 700 ft., over W. facing slopes.
38.84	The 1/4 sec. cor. of secs. 3 and 34, monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above ground, in a mound of stone, 2 ft. base, 1 ft. high, with brass cap mkd. S34 1/4 S3 1913. Add the marks 2015 to the brass cap.
	Cor. is located on a steep, S. facing slope, about 1 ch. S. of ridge top, bears E. and W.
	West, beginning new measurement.
	Descend 350 ft. of W. facing slopes.
12.85	Easterly terminus of barbed wire fence, extends W.
40.02	The cor. of secs. 3, 4, 33 and 34, monumented with an iron post, 3 ins. diam., firmly set, projecting 9 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. T1S R1W R1W S33 S34 S4 S3 T2S 1913. Add the marks 2015 to the brass cap.
	from which the remains of a bearing tree
	A dead and down, ironwood, 22 ins. diam., bears N. 5 1/4° E., 244 lks. dist., mkd. T1S R1W S34 BT on an open blaze.
	Cor. is located within a barbed wire fence, bears E. and W.
į	Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona
	Restoring the survey executed by W.H. Thorn and W.G. Shapcott, in 1916

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

	T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona
CHAINS	
	From the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.
	N. 89°40' W., bet. secs. 12 and 13.
	Descend 350 ft., leave lower slopes of Sierra Estrella Mountains, enter bottomlands.
39.89	The 1/4 sec. cor. of secs. 12 and 13, monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. S12 1/4 S13 1916, with a mound of stone, 3 1/2 ft. base, 1 1/2 ft. high, to the N. Add the marks 2015 to the brass cap.
	N. 89°40' W., beginning new measurement.
17.65	High voltage transmission line, bears S. 35° E. and N. 35° W.
19.50	Transmission line access road, graded, 12 ft. wide, bears S. 35° E. and N. 35° W.
39.98	The cor. of secs. 11, 12, 13 and 14, monumented with an iron post, 2 ins. diam., firmly set, projecting 15 ins. above ground, with brass cap mkd. T2S R1W S11 S12 S13 S14 1916. Add the marks 2015 to the brass cap.
	from which
	A forked ironwood, 16 ins. diam. at base, bears N. 13 1/4° E., 46 lks. dist., with illegible scribe marks on an open blaze.
	A steel fence post is set alongside the iron post.
	N. 89°59' W., bet. secs. 11 and 14.
	Over nearly level bottom land.
39.96	The 1/4 sec. cor. of secs. 11 and 14, perpetuated by Joseph Todaro, Arizona R.L.S. No. 36563, in 2005, as per Record of Survey, recorded in Maricopa County Recorder's Office in Book 752, Page 21. Monumented with a rebar, 30 ins. long, 5/8 in. diam., set 30 ins. in the ground, bent over 6 ins. to the W., with attached 2 ins. diam., aluminum cap stamped MARICOPA COUNTY T2S R1W S11 1/4 S14 RLS 36563 2005. Accepted as a careful and faithful perpetuation of the orig. cor. position.
	At the corner point

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

Straighten bent rebar, and set 36 ins. in the ground, place a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 28 ins. in the ground, atop the rebar, with brass cap mkd.

2016

Deposit a magnet, in a white plastic case, at the base of the stainless steel post, set a steel fence post alongside the cor.

Found lying loose nearby, original 1/4 sec. cor. monument, a bent iron post, 36 ins. long, 1 in. diam., properly marked. Also found lying loose nearby, a rebar 18 ins. long, 5/8 in. diam. Remove both monuments from area.

Cor. is located within a graded road, bears ${\tt E.}$ and ${\tt W.}$, 1.5 lks. ${\tt N.}$ of ${\tt S.}$ edge.

N. 89°58' W., beginning new measurement.

In and along graded road, over nearly level bottom land.

39.96

The cor. of secs. 10, 11, 14 and 15, monumented with an iron post, 2 ins. diam., set 3 ins. below the surface, with brass cap mkd. T2S R1W S10 S11 S14 S15 1916. A rebar 1/2 in. diam., is set alongside. Add the marks 2015 to the brass cap.

from which

A brass disk, 3 1/2 ins. diam., projecting 3 ins. above ground, set in concrete, with top mkd. U.S. GEOLOGICAL SURVEY H2 ELEVATION ABOVE SEA 1305 FT 1916 BENCHMARK, bears N. 14°11' W., 88.3 lks. dist.

and from which reference monuments of unknown origin

An iron pin, 1/2 ins. diam., projecting 6 ins. above ground, bears N. 53°35′ E., 40.3 lks. dist.

An iron pin, 1/2 ins. diam., projecting 6 ins. above ground, bears S. 29°28′ W., 40.0 lks. dist.

An iron pin, 1/2 ins. diam., projecting 6 ins. above ground, bears N. 53°56′ W., 40.5 lks. dist.

A rebar, 1/2 ins. diam., projecting 5 ins. above ground, bears N. 13°42′ W., 79.8 lks. dist.

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

Cor. is located at intersection of bladed road bearing ${\tt E.}$ and ${\tt W.}$ with bladed road bearing ${\tt N.}$

N. 0°01' E., bet. secs. 10 and 11.

In and along a bladed road, slight ascent.

- From this point, a rebar 5/8 in. diam., firmly set, projecting 1 in. above ground, with attached 1 1/2 ins. diam. aluminum cap stamped LS 1144 R/W, bear W. 2.9 lks. dist.
- 4.15 | High voltage transmission line, bears E. and W.
- The S. 1/16 sec. cor. of secs. 10 and 11, established by Taylor S. Hansen, Arizona R.L.S. No. 37512, in 2004, as per Record of Survey, recorded in Maricopa County Recorder's Office in Book 722, Page 8. Monumented with a rebar 5/8 in. diam., set 3 ins. below surface, with 2 ins. diam. aluminum cap stamped HANSEN ENGINEERING 520-723-3261 RLS 37512. Accepted as a careful and faithful establishment of the cor. position.

N. 0°01' E., beginning new measurement.

19.98

The 1/4 sec. cor. of secs. 10 and 11, perpetuated by Taylor S. Hansen, Arizona R.L.S. No. 37512, in 2004, as per Record of Survey, recorded in Maricopa County Recorder's Office in Book 722, Page 8. Monumented with a rebar, 23 ins. long, 5/8 in. diam., set 26 ins. in the ground, with attached 2 ins. diam., aluminum cap stamped HANSEN ENGINEERING 520-723-3261 10 + 11 RLS 37512. Accepted as a careful and faithful perpetuation of the orig. cor. position.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.

T 2 S R 1 W 1/4 S 10 | S 11

2016

Bury a brass disk, 3 1/2 ins. diam., 3 ins. stem, below the stainless steel post. Top of disk is marked ROBERT J. LYLE 1960-2015.

Place the rebar inside the stainless steel post, and set a steel fence post alongside.

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS	
	Cor. is located on the E. edge of a bladed road, bears N. and S.
	N. 0°01' E., beginning new measurement.
16.00	Wash, 33 ft. wide, 2 ft. deep; drains S. 85° W., begin ascent of south facing slopes of Sierra Estrella Mountains.
39.96	The cor. of secs. 2, 3, 10 and 11, monumented with an iron post, 2 ins. diam., firmly set, projecting 18 ins. above ground, in a mound of stone, 3 1/2 ft. base, to top, with brass cap mkd. T2S R1W S3 S2 S11 S104 1916. Add the marks 2015 to the brass cap.
	Cor. is located on a bench, within the S. facing slopes of Sierra Estrella Mountains.
	West, bet. secs. 3 and 10.
	Descend 500 ft., over SW facing slopes.
40.12	The 1/4 sec. cor. of secs. 3 and 10, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. S3 1/4 S10 1916. Add the marks 2015 to the brass cap, encircle the iron post with a collar of stones.
	N. 89°58' W., beginning new measurement.
	Over rolling land.
39.99	The cor. of secs. 3, 4, 9 and 10, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. T2S R1W S4 S3 S9 S10 1916. Add the marks 2015 to the brass cap.
	N. 0°08' E., bet. secs. 3 and 4.
	Over rolling land.
39.97	The 1/4 sec. cor. of secs. 3 and 4, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. 1/4 S4 S3 1916, with a mound of stone, 3 ft. base, 1 ft. high, to the W. Add the marks 2015 to the brass cap.
	N. 0°09' E., beginning new measurement.
39.13	The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., hereinbefore described.

T. 2 S., R. 1 W., Gila and Salt River Meridian, Arizona

CHAINS

GENERAL DESCRIPTION

The area resurveyed is located within and adjacent to the Sierra Estrella Mountains, the largest chain of mountains in the Phoenix metropolitan region. Access is provided by way of Estrella Ranch Parkway and several graded roads.

The soil and vegetation is typical of central Arizona, lower Sonoran Desert, with elevation ranging from approximately 1200 to 3000 feet, NAVD88.

Sections 1, 2 and 3 are bounded to the N., by Estrella Regional County Park. Sections 1 and 12 are bounded to the E., by the Gila River Indian Reservation, the remaining lands are bounded by state trust land and patented land.

The mean magnetic declination of 10 1/2° E. was derived from the National Oceanic and Atmospheric Administration, Magnetic Field Calculator, utilizing the World Magnetic Model for Epoch 2015 for the dates of survey.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Craig S. Dukart	Land Surveyor
Blas J. Urena	Land Surveyor
Charles E. Besancon III	Surveying Technician

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 30th day of October, 2015, I have dependently resurveyed a portion of the Gila and Salt River Meridian (east boundary), a portion of the north boundary and a portion of the subdivisional lines, Township 2 South, Range 1 West, of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

JAN	5,	2017
	(Date	≘)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT Phoenix, Arizona

(Cadastral Surveyor)

The foregoing field notes of the dependent resurvey of a portion of the Gila and Salt River Meridian (east boundary), a portion of the north boundary and a portion of the subdivisional lines, Township 2 South, Range 1 West, Gila and Salt River Meridian, in the State of Arizona, executed by Gordon R. Bubel, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

1/27/2017	
(Date)	(Chief Cadastral Surveyor of Arizona)
	CRRETEICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in Township 2 South, Range 1 West, Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Date) (Chief Cadastral Surveyor of Arizona)